

SIO Shipyard Representative Bi-Weekly Progress Report		
Project: AGOR 28	Contract No.: N00014-12-C-0305	Shipyard: Dakota Creek Industries
Prepared by: Paul D. Bueren Scripps Institution of Oceanography (SIO) 297 Rosecrans St. San Diego, CA 98106	Date: 30 August, 2013	Program Officer: Robert (Tim) Schnoor Office of Naval Research 875 Randolph St ONR 321 Arlington, VA 22203-1995
Distribution Statement A: Approved for public release; distribution unlimited.		Report No. A002.039

1. Meetings:

- i. Participated in weekly conference call.

2. The following Shipyard Question Submittals were reviewed and commented on:
Question:

Question 91 - Appendix B – Piping Material Schedule Exception for Uncontaminated & Incubator SW Systems.

Reference: Note 3 – use of Vanstone or similar lap joint flanges are prohibited.

We note that Appendix B does not allow the use of Vanstone type flanges. DCI would like to use a rotating flange (Vanstone flange) on the uncontaminated sea water system. The polypropylene lined pipe (resistoflex) is prefabricated at the factory in spools, which allows us to be able to have multi axis bends on the spools. This provides better flow characteristics and cleaner installation on the vessel most notably in areas of penetrations where space is valuable. The spools with bends can only be fabricated with a rotating flange. It should be noted that as the liner is continuous through the length of the pipe and flared at the ends the sealing surface is strictly between the liner faces the flanges serve only to provide a clamp between the sections of pipe. Your consideration for the use of Vanstone or Rotating flanges in this case is appreciated.

The government has approved this request with the understanding that the yard will ensure that adequate support is provided so as to minimize the potential for leaks.

SIO agreed as it will eliminate the need for unlined stainless spool pieces between WT Bulkhead and Deck penetrations. The pipe has been delivered and is currently located in the Big House. In the pictures below, please note that the bulkhead and deck inserts are have been place on the piping prior to installing the Vanstone flanges. The penetrations will be sealed with approved sleeves after the flanges have been welded into place; eliminating heat damage to the pipe liner.



Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE AUG 2013		2. REPORT TYPE		3. DATES COVERED 00-00-2013 to 00-00-2013	
4. TITLE AND SUBTITLE AGOR 28				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Scripps Institution of Oceanography (SIO), 297 Rosecrans St., San Diego, CA, 98106				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT Same as Report (SAR)	18. NUMBER OF PAGES 8	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

3. Logistics:

- i. Continuing to review Vendor Recommended Spares (VRS).
- ii. Continuing to review Technical Manuals and Supplemental Information.
- iii. Buy list 1 approved and parts on order.
- iv. Buy List 2 Submitted and should be approved the first or second week of September at the latest.
- v. Continuing to work on initial outfitting lists for Sally Ride.

4. Other Work Items:

- Seawater Piping Anti-Fouling System – SIO and WHOI are in agreement on using the copper-ion system for three sea chests and possibly the BT water side (inlets). For the BT, the copper-ion system should be sized for when the BT is secured when marine growth is more likely to occur due to little or no flow.
- Ship Stores Refrigeration – Operators continue to wait for revised diagrams and calculations from DCI and the vendor. No other information has been provided for this reporting period. Issue remains open.
- Anti-Roll Tank – GPA provided incorrect production information to DCI for the roll tank fabrications. Both vessels are affected as the roll tanks for both have been built. More so the Neil Armstrong as it has been placed on board. DCI has a fix but the government has suggested that DCI verify the corrective action with Flume to ensure that no other issues remain. In addition to the internal baffles the yard will also need to install longitudinal deck stiffeners below each frame of the anti-roll tank. These stiffeners will consist to flat bar welded between the bulb steel in 03 Deck overhead. As explained to me, the fixes seem reasonable, but the operators would like to see something from Flume showing that they concur.
- Sally Ride Stack Markings – SIO has provided DCI with our stack marking design. This included colors, dimensional drawings and a full sized template of the SIO Trident.
- Sally Ride Mod 1 Stem sub-assembly – Fabrication of the forward bow sub-assembly continues with anchor pockets complete. Yard is back gouging the shell plate seams prior to attaching the stem section to the Mod 1 Bow Thruster sub-assembly.
- Sally Ride Mod 1 Bow Thruster sub-assembly – The water side intake assembly has been set

and being fitted.
Ice belt and
frames fitted.



- Sally Ride Mod 5 – Side shell fitting in progress.



- Sally Ride Mod 6 Stern Section – A majority of the side and bottom shell plating has been fitted. The skeg and stern tunnel thruster foundation fabrication has begun.



- Sally Ride Pilot House – Progress continues at a good pace on the Pilot House. All bulkheads are up and the forward overhead has been fitted. Lessons learned from Neil Armstrong are being put to good use.



- Sally Ride Foc's'le House – Two exterior bulkheads have been landed with more to come. Most if not all of the bulkheads and decks are fabricated and ready for installation.



- Neil Armstrong Port Stern Tube –



5. The following DRL's were reviewed and commented on:

1st App Hull No	DRL No	Document Title	Occur No/Rev No
AGOR27	A024	STD Report - REGULATORY BODY CORRESPONDENCE (ABS GPA CORRESPONDENCE (Superstructure))(R/ASR)	115/0
AGOR27	A024	STD Report - REGULATORY BODY CORRESPONDENCE (ABS GPA Correspondence (Pilothouse Structure Review))(R/ASR)	111/1
AGOR27	A024	STD Report - REGULATORY BODY CORRESPONDENCE (ABS Correspondence - Self-Extinguishing Insulation)(R/ASR)	116/0
AGOR27	A024	STD Report - REGULATORY BODY CORRESPONDENCE (MARKEY COORES & DWGS Additional Docs)(R/ASR)	117/0
AGOR27	A052	STD Report - CONFIGURATION DATABASE LISTING (CDBL) (DI-052 (CDBL) Monthly Submittal #18)(R/ASR)	62/0

AGOR28	A027-34	DWG Report - PAINT SCHEDULE (Paint Schedule Rev 2)(R/ASR)	5/0
AGOR28	A006-08	STD Report - PURCHASE ORDER (PO) INDEX (PO Index AGOR 28)	36/0
AGOR27	A002	STD Report - DESIGN REVIEW AGENDAS AND MINUTES (DESIGN REVIEW 10 MINUTES)(R/ASR)	67/1
AGOR27	A031-03	STD Report - TEST PROCEDURES (624-1 WATERTIGHT HATCH TIGHTNESS TEST (CHALK))(R/ASR)	15/0
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS (DI-051 (VRS) for HLS-259 NR Exhaust System (High Level))(R/ASR)	642/0
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS (DI-051 (VRS) for PL 72776-01 Steel Grease Interceptor)(R/ASR)	644/0
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS (DI-051 (VRS) for PL 72343-01 NR PCM Windows)(R/ASR)	646/0
AGOR27	A055	TM Report - COMMERCIAL TECHNICAL MANUALS AND SUPPLEMENTAL DATA (#215 DI-055 (TM) for 259 Exhaust System High-Level Manual)(R/ASR)	429/0
AGOR27	A055	TM Report - COMMERCIAL TECHNICAL MANUALS AND SUPPLEMENTAL DATA (#216 DI-055 (TM) for 528d Grease Interceptor)(R/ASR)	431/0
AGOR27	A055	TM Report - COMMERCIAL TECHNICAL MANUALS AND SUPPLEMENTAL DATA (#217 DI-055 (TM) for 625 PCM Windows)(R/ASR)	433/0
AGOR27	A031-03	STD Report - TEST PROCEDURES (ANCHOR CHAIN MARKING VERIFICATION TEST PROCEDURES)(R/ASR)	19/0
AGOR27	A007	STD Report - PURCHASE ORDERS (PO) (PO #72843 BRANOM INSTRUMENT CO)(R/ASR)	719/0
AGOR27	A007	STD Report - PURCHASE ORDERS (PO) (PO #72828 CHARLES INDUSTRIES)(R/ASR)	720/0
AGOR27	A007	STD Report - PURCHASE ORDERS (PO) (PO #72653 FERGUSON ENTERPRISES)(R/ASR)	722/0
AGOR27	A007	STD Report - PURCHASE ORDERS (PO) (PO #72842 SHIP	729/0

		INTERIOR SYSTEMS)(R/ASR)	
AGOR27	A031-03	STD Report - TEST PROCEDURES (PROCEDURE FOR THE PNUEMATIC PRESSURE TESTING OF PIPING SYSTEMS)(DARC REV)	10/0
AGOR27	A031-03	STD Report - TEST PROCEDURES (625-1 WINDOW TIGHTNESS TEST (HOSE))(R/ASR)	17/0
AGOR27	A033-03	STD Report - QUARTERLY WEIGHT REPORT (QUARTERLY WEIGHT REPORT)	4/0
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS (DI-051 (VRS) for PL 72815-01 Haws Model 7500 Portable Eyewash)(R/ASR)	648/0
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS (DI-051 (VRS) for PL 72817-01 NR Danby DAR259BL Refrigerator)(R/ASR)	650/0
AGOR27	A055	TM Report - COMMERCIAL TECHNICAL MANUALS AND SUPPLEMENTAL DATA (#219 DI-055 (TM) for 644 Haws Model 7500 Portable Eyewash)(R/ASR)	437/0
AGOR27	A055	TM Report - COMMERCIAL TECHNICAL MANUALS AND SUPPLEMENTAL DATA (#220 DI-055 (TM) for 640b Danby DAR259BL Refrigerator)(R/ASR)	439/0
AGOR28	A035-02	STD Report - SYSTEM DESIGN SCHEDULE (Schedule Design Schedule Rev G)(R/ASR)	10/0
AGOR27	A027-16	DWG Report - AUXILIARY SYSTEMS REPORT (VENTS FILLS & SOUNDINGS)(R/ASR)	2/2